

IN THE CLAIMS

1. (Previously Presented) An apparatus comprising:
 - a first side including a generally planar surface and one of conductive pads and trace pads surrounding the generally planar surface such that the generally planer surface is accessible to a pick-and-place vacuum force attachment;
 - a lid portion including the first side and having a dimension at least large enough to cover or extend over a plurality of contacts of a socket;
 - a test device portion integral with the lid portion, the test device portion having a plurality of energy conduits to provide a response to a plurality of energy stimuli to a second side disposed opposite the first side.
2. (Original) The apparatus of claim 1, wherein the lid portion includes a dimension to protect the plurality of contacts from impact, dust, and electrical coupling from the first side.
3. (Original) The apparatus of claim 1, wherein the energy conduits includes a plurality of stimuli transfer zones to receive a plurality of energy stimuli from the second side and to provide a response to the plurality of energy stimuli to the second side.
4. (Original) The apparatus of claim 1, wherein the energy conduits are to transfer a plurality of energy stimuli between the second side and the first side.
5. (Original) The apparatus of claim 4, wherein the stimuli transfer zones are to transfer the energy stimuli between the zones and the contacts by one of electrical contact, electrically capacitive coupling, a thermal coupling, radio frequency transmission over free space, infrared transmission over free space, and photonic transmission over free space.

6. (Original) The apparatus of claim 5, wherein the stimuli transfer zones are to couple to the contacts by a coupling without causing a force actuation, compression, or compliance of the contacts.

7. (Original) The apparatus of claim 5, wherein the stimuli transfer zones are to couple to the contacts by a coupling causing a force actuation, compression, or compliance of the contacts.

8. (Currently Amended) An apparatus comprising:
a first side forming a generally planar surface and a second side disposed opposite the first side, the second side having a dimension suitable to be removably coupled to a socket;
a lid portion including the first side and having a dimension at least large enough to cover a cavity and a plurality of contacts of the socket;
a test device portion integral with the lid portion, the test device portion having a plurality of energy conduits to receive a plurality of energy stimuli from a plurality of contacts of the socket and to provide a response to the contacts; and
the apparatus having a size that is smaller or equal in depth as compared to a depth of an inner dimension of the cavity.

9. (Original) The apparatus of claim 8, wherein the first side includes one of a generally planar surface adapted to be attached to via a vacuum force attachment to pick up and place the apparatus on the socket, and at least one mechanical attachment point to be mechanically grappled to by a device to pick up and place the apparatus on the socket.

10. (Original) The apparatus of claim 8, wherein the first side includes one of a generally planar surface adapted to be attached to via a vacuum force attachment to pick up and place the apparatus and the socket on a printed circuit board, and at least one mechanical attachment point to be mechanically grappled to by a device to pick up and place the apparatus and the socket on a printed circuit board.

11. (Original) The apparatus of claim 8, wherein the second side is to removably couple to a socket via at least one of an electronic chip interface, a cantilever, a forced insertion connection, an adhesive, a latch, a retaining lid, a distributed socket loading device, and a physical restraint.

12. (Original) The apparatus of claim 8, wherein the second side has a plurality of contacts to electrically coupled to the contacts of the socket.

13. (Original) The apparatus of claim 8, wherein the energy stimuli includes at least one of an electrical energy, a photonic energy, a magnetic energy, a thermal energy, an x-ray energy, an infrared energy, and a radio frequency energy.

14. (Original) The apparatus of claim 8, wherein the lid portion includes at least one of an alignment groove, an alignment ear, an orienting shape, an indexing pin or pin receptacle.

15. (Original) The apparatus of claim 8, wherein the plurality of energy conduits include at least one of an electrical contact, an electrical conductor, an electrical semiconductor, a silicon chip, an electronic device, an active electronic device, a field effect transistor (FET), an electrical signal trace, a printed circuit board (PCB), an area for receiving photonic energy, a photonic energy conduit, a photonic device, an analog device, a capacitor, a resistor, an inductor, a thermal conduit, and a plurality of capacitors and/or resistors.

16. (Original) The apparatus of claim 8, wherein the energy conduits include one of conduits disposed within the apparatus between the first side and the second side, and conduits disposed on the first side.

17. (Previously Presented) The apparatus of claim 8, wherein each conduit has a location and a physical dimension to receive at least one of the plurality of energy stimuli at a first location of the second side and respond to the at least one of the plurality of energy stimuli to the first location or to a second location of the second side.

18. (Previously Presented) The apparatus of claim 8, wherein the energy conduits include contacts on the first side to receive stimuli or to provide a response to stimuli received by the apparatus.

19. (Original) The apparatus of claim 8, wherein the lid includes a material suitable to protect the plurality of contacts from impact damage, dust, dirt, and additional electrical coupling.

20. (Currently Amended) A system comprising:
a printed circuit board (PCB);
a socket coupled to the PCB, the socket having a cavity and a plurality of contacts within the cavity to electronically couple to a computing device;
an apparatus removably coupled to the socket, the apparatus comprising:
a lid portion having a dimension at least large enough to cover the cavity;
and
a test device portion integral with a lid portion, the test device portion having a plurality of energy conduits electronically coupled to the plurality of contacts of the socket to provide a response to the contacts for a plurality of energy stimuli received from the contacts; ~~and, wherein the apparatus having has a size~~ that is smaller or equal in depth as compared to a depth of an inner dimension of the cavity.

21. (Previously Presented) The system of claim 20, wherein the energy conduits are to respond to a plurality of electronic signals received from the contacts.

22. (Original) The system of claim 20, wherein the socket has a cavity to removably couple to one of a computing device, an electronic device, an active electronic device, a field effect transistor (FET), a photonic device, an analog device, an electrical contact, an electrical conductor, an electrical semiconductor, and a silicon chip.

23. (Original) The system of claim 20, wherein the computing device includes one of an electronic device, an active electronic device, a field effect transistor (FET), a photonic device, an analog device, an electrical contact, an electrical conductor, an electrical semiconductor, and a silicon chip.

24. (Original) The system of claim 20, wherein the lid portion includes a dimension suitable to protect the plurality of contacts from impact, dust, and electrical coupling from the first side.

25-33. (Canceled)

34. (Previously Presented) The apparatus of claim 1, wherein the apparatus further comprises a thickness to allow a retainer of the socket to close over the apparatus.

35. (Previously Presented) The apparatus of claim 8, wherein the depth allows a retainer of the socket to close over the apparatus.

36. (Previously Presented) The system of claim 20, wherein the depth allows a retainer of the socket to close over the apparatus.